BRUHAT BENGALURU MAHANAGARA PALIKE

Name Of Work:-Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

JOB CODE NO: - 003-20-000078

QC REPORTS

THIRD AND FINAL BILL

CLIENT:

EXECUTIVE ENGINEER

YELAHANKADIVISION

BBMP, BENGALURU

PMC CONSULTANTS:

VSR CIVIL INFRA PVT. LTD.

No. 552/B, 6th Main road, 50 feet road, Hanumanthnagara, Bengaluru- 560019

E-mail: vsrcivilinfra@gmail.com

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

ame Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

lient	**: Executive Engineer, Yelahanka satellite Town Sub division**
onsultant	**: VSR Civil Infra Pvt. Ltd**
ontractor	**: Shivanna**

GRADATION FOR BITUMINOUS MACADUM

urpose	BM	**Date of Sampling**	24.08.2021
ource	Bettahalli	**Sampled by**	PMC
ype of Mix	BM	**Date of Testing**	24.08.2021
ocation	at Stackyard	**Tested by**	PMC
		Weight of sample (gm) :	**13520**

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	425	425	3.15	96.85	90-100
13.2mm	3150	3575	26.44	73.56	56-88
4.75mm	6480	10055	74.37	25.63	16-36
2.36mm	1540	11595	85.76	14.24	4--19
300mic	890	12485	92.34	7.66	2--10
75mic	180	12665	93.68	6.32	0--8

Remarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

ame Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

lient	**: Executive Engineer, Yelahanka satellite Town Sub division**
onsultant	**: VSR Civil Infra Pvt. Ltd**
ontractor	**: Shivanna**

GRADATION FOR BITUMINOUS MACADUM

urpose	BM	**Date of Sampling**	24.08.2021
ource	Bettahalli	**Sampled by**	PMC
ype of Mix	BM	**Date of Testing**	24.08.2021
ocation	at Stackyard	**Tested by**	PMC
		Weight of sample(gm) :	**14587**

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	535	535	3.68	96.32	90-100
13.2mm	3170	3705	25.40	74.60	56-88
4.75mm	6750	10455	71.67	28.33	16-36
2.36mm	2155	12610	86.45	13.55	4--19
300mic	1085	13695	93.88	6.12	2--10
75mic	395	14090	96.59	3.41	0--8

emarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

ame Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

lient	**: Executive Engineer, Yelahanka satellite Town Sub division**
onsultant	**: VSR Civil Infra Pvt. Ltd**
ontractor	**: Shivanna**

GRADATION FOR BITUMINOUS MACADUM

urpose	BM	**Date of Sampling**	25.08.2021
ource	Bettahalli	**Sampled by**	PMC
ype of Mix	BM	**Date of Testing**	25.08.2021
ocation	at Site	**Tested by**	PMC
		Weight of sample(gm) :	**12550**

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	545	545	4.38	95.62	90-100
13.2mm	3800	4345	34.62	65.38	56-88
4.75mm	5150	9495	75.66	24.34	16-36
2.36mm	1355	10850	86.45	13.55	4--19
300mic	900	11750	93.63	6.37	2--10
75mic	255	12005	95.66	4.34	0--8

temarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

me Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

ent	**: Executive Engineer, Yelahanka satellite Town Sub division**
nsultant	**: VSR Civil Infra Pvt. Ltd**
ntractor	**: Shivanna**

GRADATION FOR BITUMINOUS MACADUM

rpose	BM	**Date of Sampling**	25.08.2021
urce	Bettahalli	**Sampled by**	PMC
pe of Mix	BM	**Date of Testing**	25.08.2021
cation	at Site	**Tested by**	PMC
		Weight of sample(gm) :	**13450**

Sieve Size (mm)	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
26.5 mm	0	0	0	100.00	100
19mm	1125	1125	8.37	91.63	90-100
13.2mm	845	1970	14.65	85.35	56-88
4.75mm	6820	8790	65.35	34.65	16-36
2.36mm	2735	11525	85.69	14.31	4--19
300mic	965	12490	92.86	7.14	2--10
75mic	520	13010	96.73	3.27	0--8

marks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

Client	: Executive Engineer, Yelahanka satellite Town Sub division
Contractor	: Shivanna
Consultant	:VSR Civil Infra Pvt. Ltd

BITUMEN EXTRACTION TEST

Purpose	BM	Date of Sampling	24-08-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BM	Date of Testing	24-08-2021
Location	at Stockyard	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	502	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	484.182	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	17.07	
7	Binder contant (W6/W1)x100	3.40	

Remarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative	Contractor Representative	Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

e Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward 3

ıt	**: Executive Engineer, Yelahanka satellite Town Sub division**
ractor	**: Shivanna**
sultant	**:VSR Civil Infra Pvt. Ltd**

BITUMEN EXTRACTION TEST

ose	BM	Date of Sampling	24-08-2021
ce	Bettahalli	Sampled by	PMC
of Mix	BM	Date of Testing	24-08-2021
tion	at Stockyard	Tested by	PMC

I NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	498	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	480.318	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	16.93	
7	Binder contant (W6/W1)x100	3.40	

arks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

Client	**: Executive Engineer, Yelahanka satellite Town Sub division**
Contractor	**: Shivanna**
Consultant	**:VSR Civil Infra Pvt. Ltd**

BITUMEN EXTRACTION TEST

Purpose	BM	**Date of Sampling**	25-08-2021
Source	Bettahalli	**Sampled by**	PMC
Type of Mix	BM	**Date of Testing**	25-08-2021
Location	at Stockyard	**Tested by**	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	509	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	490.9949	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	17.26	
7	Binder contant (W6/W1)x100	3.39	

Remarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative **Contractor Representative** **Client Representative**

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Name Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

Client	: Executive Engineer, Yelahanka satellite Town Sub division
Contractor	: Shivanna
Consultant	:VSR Civil Infra Pvt. Ltd

BITUMEN EXTRACTION TEST

Purpose	BM	Date of Sampling	25-08-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BM	Date of Testing	25-08-2021
Location	at Stockyard	Tested by	PMC

SI NO	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	520	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	501.5284	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	17.72	
7	Binder contant (W6/W1)x100	3.41	

Remarks : Test result is confirmd as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

Client	: Executive Engineer, Yelahanka satellite Town Sub division
Consultant	: VSR Civil Infra Pvt. Ltd.
Contractor	: Shivanna

Purpose	BC	Date of Sampling	26-08-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	26-08-2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 8675 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	270	270	3.15	96.85	90 –100
9.5mm	1045	1315	15.16	84.84	70 – 88
4.75mm	1530	2845	32.80	67.20	53 – 71
2.36mm	2045	4890	56.37	43.63	42 – 58
1.18mm	475	5365	61.84	38.16	34 – 48
600mic	485	5850	67.44	32.56	26 – 38
300mic	785	6635	76.48	23.52	18 – 28
150mic	845	7480	86.22	13.78	12 – 20
75mic	595	8075	93.08	6.92	4 – 10

Remarks : Test result is confirmed as per MORTH specification

Consultant Representative | Contractor Representative | Client Representative

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03

Client	: Executive Engineer,Yelahanka satellite Town Sub division
Consultant	: VSR Civil Infra Pvt. Ltd.
Contractor	: Shivanna

Purpose	BC	Date of Sampling	27-08-2021
Source	Bettahalli	Sampled by	PMC
Type of Mix	BC	Date of Testing	27-08-2021
Chainage	at Stackyard	Tested by	PMC

GRADATION OF BC (GRADE-II)

Weight of sample: 8200 gms

Sieve Size	Weight Retained (gm)	Cum. Weight Retained (gm)	Cummulative % Retained	Cummulative % passing	Specification Limits As per MORTH
19mm	0	0	0	100.00	100
13.2mm	370	370	4.55	95.45	90 –100
9.5mm	1655	2025	24.70	75.30	70 – 88
4.75mm	1510	3535	43.11	56.89	53 – 71
2.36mm	575	4110	50.12	49.88	42 – 58
1.18mm	1065	5175	63.11	36.89	34 – 48
600mic	670	5845	71.28	28.72	26 – 38
300mic	505	6350	77.44	22.56	18 – 28
150mic	630	6980	85.12	14.88	12 – 20
75mic	735	7715	94.09	5.91	4 – 10

Remarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

me Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward : 03

ient	: Executive Engineer, Yelahanka satellite Town Sub division
ntractor	: Shivanna
nsultant	:VSR Civil Infra Pvt. Ltd

BITUMEN EXTRACTION TEST

rpose	BC	Date of Sampling	26-08-2021
urce	Bettahalli	Sampled by	PMC
pe of Mix	BC	Date of Testing	26-08-2021
cation	at Stackyard	Tested by	PMC

Sl no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	505	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	476.98	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	27.27	
7	Binder contant (W6/W1)x100	5.40	

emarks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Contractor Representative

Client Representative

VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

Of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

t	: Executive Engineer, Yelahanka satellite Town Sub division
actor	: Shivanna
ltant	:VSR Civil Infra Pvt. Ltd

BITUMEN EXTRACTION TEST

se	BC	Date of Sampling	26-08-2021
	Bettahalli	Sampled by	PMC
f Mix	BC	Date of Testing	26-08-2021
on	at Site	Tested by	PMC

no	Description	Trail 1	Trail 2
1	Initial weight of sample (gms) W1	515	
2	Initial weight of Filter Paper (gms) W2	4.17	
3	Final weight of sample (gms) W3	486.44	
4	Final weight of Filter Paper (gms) W4	4.92	
5	Weight of Finess (gms) W5= (W4- W2)	0.75	
6	Weight of Bitumen W6= W1-(w3+W5)	27.81	
7	Binder contant (W6/W1)x100	5.40	

arks : Test result is confirmed as per MORTH specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

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ಪುಲಿಕೇಶಿ ನಗರದ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

nsultants representative | Contractor Representative | Client Representative

areas in ward

VSR Civil Infra Pvt. Ltd.
#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Name of Work: Asphalting to roads at Ambhabhavani layout and surrounding area in ward no: 03	
Client	**: Executive Engineer,** Yelahanka satellite Town Sub division
Consultant	**: VSR Civil Infra Pvt. Ltd.**
Contractor	**: Shivanna**
No.of Sample Tested	: 03
Date of Testing	16.08.2021
Techinical Reference	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	M_{20}

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.346	2318.64	1.52	0.960	35.00	17.83	19.25	18.48	23.10
2	50.00	80.00	0.369	2349.13	1.60	0.960	33.50	17.06	18.43	17.69	22.11
3	50.00	85.00	0.398	2384.70	1.70	0.960	32.70	16.65	17.99	17.27	21.58

Remarks: **Test result is confirmed as per MORTH specification**

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants Representative **Contractor Representative** **Client Representative**